

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 1.28**WELDING INSPECTION REPORT****Resident Engineer:** Casey, William**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-029575**Date Inspected:** 07-May-2013**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1730**Contractor:** American Bridge/Fluor Enterprises, a JV**Location:** Job Site**CWI Name:** As noted below**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** SAS OBG**Summary of Items Observed:**

Quality Assurance Inspector (QA) Douglas Frey was at the American Bridge/Fluor (ABF) job site at Yerba Buena Island in California between the times noted above in order to monitor Quality Control functions and the in process work being performed by ABF personnel. The following items were observed:

This QA observed the following welders working on the OBG at the following locations:

This QA Inspector randomly observed ABF welder Lin E Yun #9344 back-gouging the opposite side of the root on the Hinge A barricade adjustment plates 5-8 (PL5, PL6, PL7 and PL8) on the south side of the westbound OBG utilizing the Carbon Arc Gouging (CAG) method. The welder was observed performing proper arc gouging procedures to avoid the retention of carbon deposits and material or dross in the areas which are to be welded and utilizing a small disc grinder to ground the back gouged area to bright metal.

FW Spencer welder Tim Esquivel #8348 was observed performing SMAW welding on 4" schedule 40 pipe sockets and outlets. The welder was observed utilizing WPS-1-12-1 and pre-heating the surface area to be welded prior to welding. Other welding parameters as inspected by the QC Inspector appeared to be in compliance with the WPS noted above. This QA Inspector made random observations throughout the shift and noted that the work was completed on this date and appeared to be in general conformance with the contract documents. Completed work on this date includes weld identification #'s; 1/DW1/92.5/BE and 1/DW1/91.5/BE.

This QA Inspector randomly observed Quality Control Inspector William Sherwood perform Magnetic Particle (MT) testing and inspection of the Hinge A barricade adjustment plates 5-8 (PL5, PL6, PL7 and PL8) on the south

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side of the eastbound OBG. QC was performing the testing in accordance with AWS D1.5-Section 6.7.6-2002 and ASTM E709. It was noted that no rejectable indications were found and appeared to comply with the contract specifications.

This QA Inspector randomly observed Quality Control Inspector William Sherwood perform MT testing and inspection of the Hinge A barricade adjustment plates 1-4 (PL1, PL2, PL3 and PL4) on the north side of the westbound OBG. QC was performing the testing in accordance with AWS D1.5-Section 6.7.6-2002 and ASTM E709. It was noted that no rejectable indications were found and appeared to comply with the contract specifications.

This QA observed QC Inspector William Sherwood and Salvador Merino performing welding parameter checks such as voltage, amps, electrodes and preheats throughout the day. Non-Destructive Testing methods utilized by the QC Inspectors were Visual Testing (VT), Magnetic Particle Testing (MPT). QC Inspectors were observed performing inspection per applicable code and or contract criteria. Unless otherwise noted, all work observed on this date appeared to generally comply with the contract documents.

### Summary of Conversations:

Conversations on this date were relevant to work performed.



### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Gary Thomas 916-764-6027 , who represents the Office of Structural Materials for your project.

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**Inspected By:** Frey,Doug

Quality Assurance Inspector

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**Reviewed By:** Reyes,Danny

QA Reviewer

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